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Measurement of Neutral Cascade Production from Negative-Kaon-Hydrogen at 1.8 GeV/c, K^-p --> K^0 Xi 0

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The reaction $K^-p --> K^0 Xi^0$ was investigated in a counter-spark-chamber experiment carried out at the Bevatron. The c.m. angular distribution was obtained from a sample of 59 events for an incident meson momentum of 1.8 GeV/c. A Legendre-polynomial fit to the data yielded the coefficients $B_0 = 1.00 \pm 0.27$, $B_1 = 0.45 \pm 0.42$, $B_2 = 1.08 \pm 0.47$, $B_3 = -1.20 \pm 0.62$ for an expression of the form $d sigma / d Omega = (sigma / 4 pi) SUM_{l=1}^{l=4} [B_l P_l (theta)]$, where sigma =total cross section, and theta =c.m. production angle of the K^0 , P_l (theta) = theta = th

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